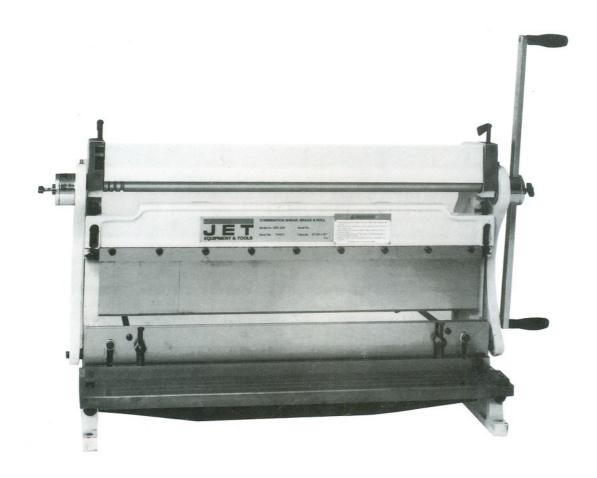


OWNER'S MANUAL

SBR-30N /-40N Shear, Brake, and Roll



JET EQUIPMENT & TOOLS, INC. A WMH - Walter Meier Holding Company (SBR-30N shown)

P.O. BOX 1349 Auburn, WA 98071-1349 253-351-6000 Fax 253-939-8001

No. M-754031 06/01

Important Information

1-YEAR
LIMITED WARRANTY

JET offers a one-year limited warranty on this product

REPLACEMENT PARTS

Replacement parts for this tool are available directly form JET Equipment & Tools. To place an order, call 1-800-274-6848. Please have the following information ready:

- 1. Visa, MasterCard, or Discover Card number
- 2. Expiration date
- 3. Part number listed within this manual
- Shipping address other than a Post Office box.

REPLACEMENT PART WARRANTY

JET Equipment & Tools makes every effort to assure that parts meet high quality and durability standards and warrants to the original retail consumer/purchaser of our parts that each such part(s) to be free from defects in materials and workmanship for a period of thirty (30) days from the date of purchase.

PROOF OF PURCHASE

Please retain your dated sales receipt as proof of purchase to validate the warranty period.

LIMITED TOOL AND EQUIPMENT WARRANTY

JET makes every effort to assure that its products meet high quality and durability standards and warrants to the original retail consumer/purchaser of our products that each product be free from defects in materials and workmanship as follows: 1 YEAR LIMITED WARRANTY ON THIS JET PRODUCT. Warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities or to a lack of maintenance. JET LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD SPECIFIED ABOVE FROM THE DATE THE PRODUCT WAS PURCHASED AT RETAIL. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OR MECHANTABILITY AND FITNESS ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG THE IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. JET SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERY OR FOR INCIDENTAL, CONTINGENT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. To take advantage of this warranty, the product or part must be returned for examination, postage prepaid, to an authorized service station designated by our Auburn office. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection discloses a defect, JET will either repair or replace the product or refund the purchase price, if we cannot readily and quickly provide a repair or replacement, if you are willing to accept such refund. JET will return repaired product or replacement at JET's expense, but if it is determined there is no defect, or that the defect resulted from causes not within the scope of JET's warranty, then the user must bear the cost of storing and returning the product. This warranty gives you specific legal rights, and you have other rights, which vary, from state to



- Read and understand the entire instruction manual before attempting assembly or operation.
- This shear, brake, and roll is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of a shear, brake, and roll, do not use until proper training and knowledge have been obtained.
- This shear, brake, and roll is intended to be used by one person only.
- The shear, brake and roll must be bolted securely to a stand and the stand bolted securely to the floor. If the machine is to be bench mounted, the bench must be able to support the weight of the machine and must be bolted to the floor.
- Keep the floor around the shear, brake, and roll clear of scraps, debris, oil, and grease. The flooring around the machine should be a non-skid type.
- Sheet metal stock has sharp edges. To prevent cuts, use caution when handling.
- Keep hands and fingers clear of the area in front and rear of the shearing blades.
- Keep guards in place when not using the slip roll.
- Keep other people away from the shear, brake, and roll.
- Keep hands and fingers clear of the slip roll "nip" points. Keep hand and fingers away from the area in front and rear of the shear blades.
- Keep hands and fingers away from the press brake dies when forming metal.
- Do not exceed the maximum capacity of the machine.
- Do not use the machine for any purpose other than for which it is designed.
- Failure to comply with all of these warnings may cause serious injury.

SOME DUST CREATED BY power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead based paint
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

YOUR RISK FROM THOSE EXPOSURES varies, depending on how often you do this type of work.

 To reduce your exposure to these chemicals:work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specifically designed to filter out microscopic particles

Stock Number	754031
Capacity (Mild Steel):	
Shearing	
Bending	
Rolling	
Size of Slip Roll	
Width of Upper Dies	
Upper Die Height	
Minimum Forming Radius	
Overall Dimensions	42-1/2"Lx21-1/2"Wx28"H
Shipping Weight (approx.)	330 lbs.
Specifications:	SBR-40N
Stock Number	754041
Capacity (Mild Steel):	
Shearing	20 Ga.x40"
Bending	

SBR-30N

Specifications:

The specifications in this manual are given as general information and are not binding. JET Equipment and Tools reserves the right to effect, at any time and without prior notice, changes or alterations to parts, fittings, and accessory equipment deemed necessary for any reason whatsoever.

 Rolling
 20 Ga.x40"

 Size of Slip Roll
 1-1/2"Wx40"L

 Width of Upper Dies
 1", 1-1/2", 2", 2-1/2", 4", 7", 10", & 15"

 Upper Die Height
 4-3/8"

 Minimum Forming Radius
 3/4"

 Overall Dimensions
 57"L x 19"W x 34"H

 Shipping Weight (approx.)
 616 lbs.

Assembly

- Finish removing the crate from around the machine.
- Remove the bolts holding the machine to the skid.
- Carefully clean all rust protected surfaces with a mild solvent or kerosene and a soft rag. Do not use lacquer thinner, paint thinner, or gasoline. These will damage painted surfaces.
- Coat all machined surfaces with a very light film of oil to inhibit rust.
- Carefully move the shear, brake, and roll to a work bench or stand. Machine location must allow free access on all sides.
- Bolt the machine to a stand or a workbench. If using a stand, the stand must be bolted to the floor. If using a work bench, the bench must be bolted to the floor.
- 7. Remove one handle (A, Fig. 1) from the handle assembly.
- 8. Loosen wing lock (B, Fig. 1).
- 9. Slide bar (C, Fig. 1) into hub and tighten wing lock (Fig. 1) to hold in place.
- 10. Replace handle (B. Fig. 1).
- Back gauge assembly is installed in either the shear position (angle iron faces up - Fig. 2) or the brake position (angle iron faces down - Fig. 3).

Lubrication

 Grease nipples on top of left and right frame sides with #2 lithium tube grease once a month (D, Fig. 1).

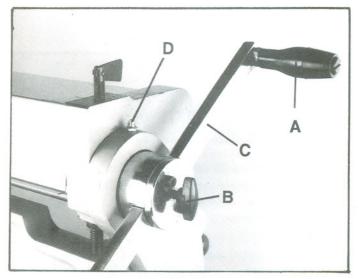


Fig. 1

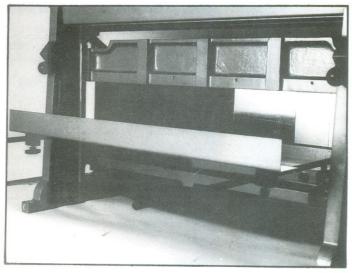


Fig. 2

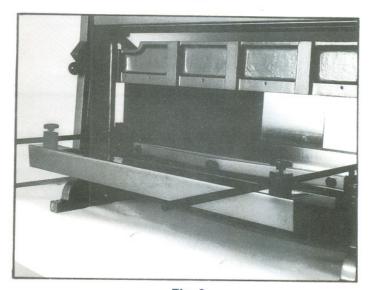


Fig. 3

Setting Up the Press Brake

⚠ WARNING

Do not bend any material larger than 30" (40") 20 gauge mild steel! Failure to comply may cause serious injury and/or damage to the machine!

To set up for bending:

- Place a piece of wood 30" long on the bottom die. This will support the upper die(s) during the following adjustment.
- 2. Close the brake until the wood contacts the upper dies.
- 3. Loosen hex cap socket retaining screws (A, Fig. 4).
- 4. Select die(s) (B, Fig. 4) for the desired job and remove others.
- 5. Lower handle until the wood forces the dies to seat uniformly in the upper beam.
- 6. Lock all clamp screws (A, Fig. 4) securely.

To adjust the brake beam to make 90° bends at the bottom of the stroke:

- 1. Loosen locking screws slightly (A, Fig. 5).
- Turn brake beam adjusting nuts (B, Fig. 5) located on either end of the beam until test bends reflect a 90° bend at both ends of the brake.
- 3. Tighten locking screws (A, Fig. 5).

For special repetitive bends, the brake beam may be adjusted to over-bend the desired angle since the metal will have some degree of "spring back".

Setting Up the Shear

⚠ WARNING

Do not shear any material larger than 30" (40")
20 gauge mild steel! Failure to comply may
cause serious injury and/or damage to the
machine!

 Move the angle iron on the back gauge assembly to the "up" position if not already set that way. (See Fig. 6)

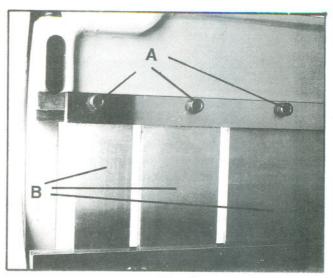


Fig. 4

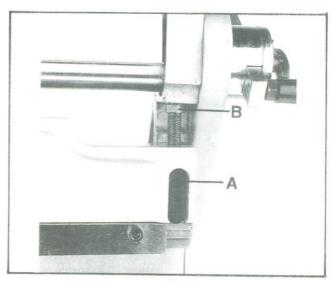


Fig. 5

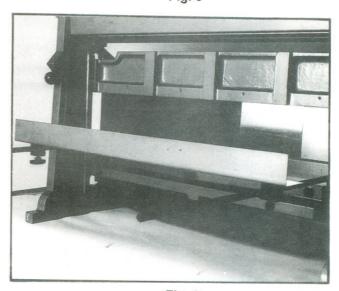


Fig. 6

- 2. Work to be sheared must be squared against the squaring guide.
- Adjust the hold down to within 1/4" above the table when the shear blade is in the up position by turning two hex cap bolts (A, Fig. 7). When the blade starts it's downward travel, the hold down should immediately hold the work piece in place.

To prevent distortion, "snap" the handle to facilitate piercing when notching.

To adjust lower shear:

- 1. Loosen two hex cap screws (B, Fig. 7) on each end of the table.
- Use adjusting screws (A, Fig. 8) to narrow the gap between the shear and the table to facilitate cutting of thin material.

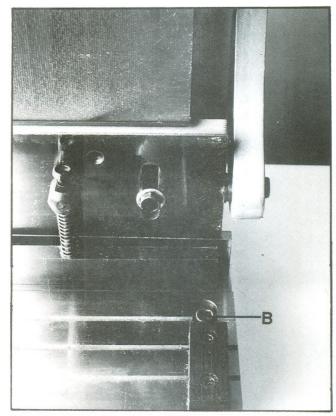


Fig. 7

Setting Up the Slip Roll

! WARNING

Do not roll any material larger than 30" (40") 20 gauge mild steel!

The slip roll guard must cover the slip rolls except when material is being fed into the rolls! Failure to comply may cause serious injury and/or damage to the machine!

⚠ WARNING

Beware of the "nip" point - the intersection of the upper and lower rolls! Failure to comply may cause serious injury to fingers and/or hands!

Note: If it doesn't interfere with the proposed final shape or design, a slight bend made with the press brake on the leading edge will simplify the initial rolling process.

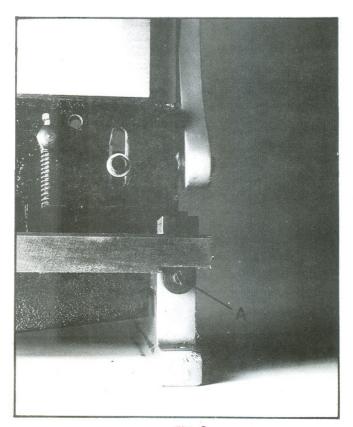


Fig. 8

Upper roll must have sufficient pressure on the work piece to feed properly.

To remove cylindrical shaped workpieces:

- 1. Loosen wing screws (A, Fig. 9) on either of the top roll.
- 2. Loosen hex socket cap screw (B, Fig. 9) and rotate toward the rear of the machine to release roll catch.
- 3. Carefully grasp roll and pull toward you to remove.
- 4. Once removed, cylindrical shaped work pieces may be slipped off the end of the roll.

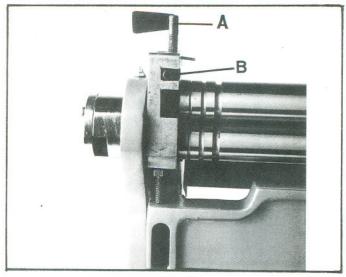
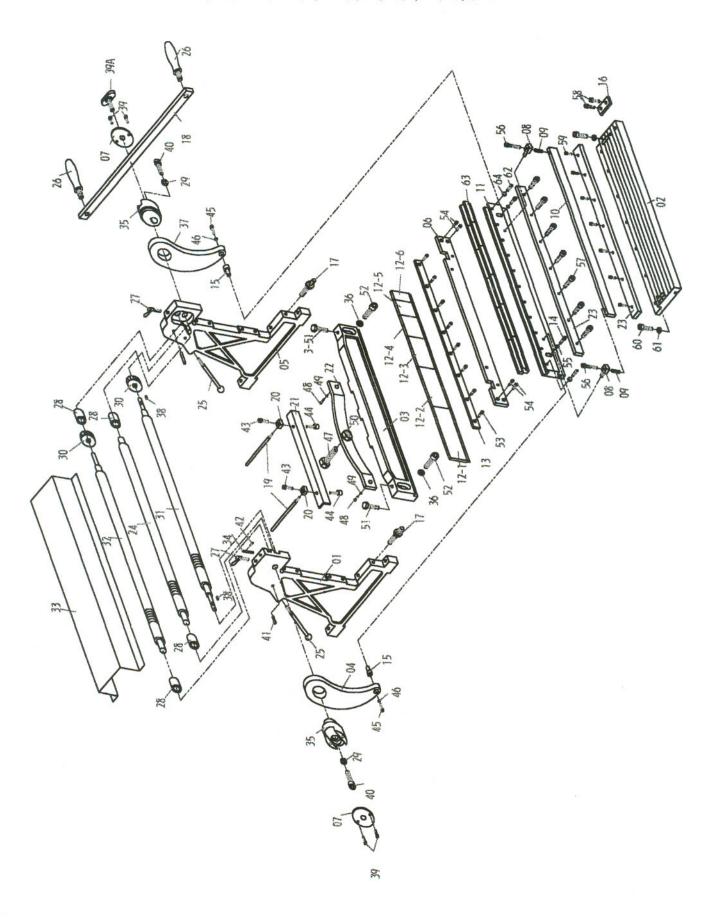


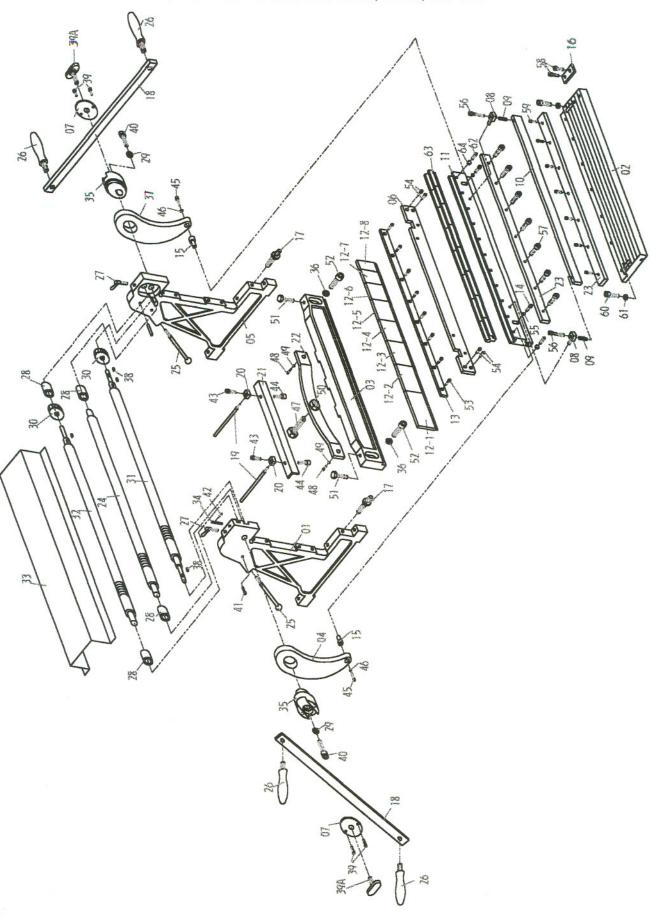
Fig. 9



Parts List For The SBR-30N Shear, Brake, and Roll

Index	Part			
No.	No.	Description	Size	Qty.
	0000014	- a.s.		
		Frame (left)		
		Table		
		Cross Beam		
		Arm (left)		
		Frame (right)		
		Spacer Bar		
		Cover		
8	SBR30N-8	Plug		2
9	SBR30N-9	Spring		2
10	SBR30N-10	Press Plate		1
11	SBR30N-11	Cutter Plate		1
12-1	SBR30N-12-1	Brake Forming Die	. 10"	1
12-2	SBR30N-12-2	Brake Forming Die	. 8"	1
12-3	SBR30N-12-3	Brake Forming Die	6"	1
12-4	SBR30N-12-4	Brake Forming Die	3"	1
12-5	SBR30N-12-5	Brake Forming Die	2"	1
12-6	SBR30N-12-6	Brake Forming Die	1"	1
		Press Plate		
		Hex Cap Bolt		
		Pivot		
		Block		
		Adjustable Bolt		
		Handle Bar		
		Guide Rod		
		Guide Block		
		Guide Plate		
		Guide Bar		
		Cutter		
		Roll		
		Screw		
		Handle		
		Adjustable Bolt		
		Bushing		
		Cover		
		Gear		
		Lower Pressing Roll		
		Upper Pressing Roll		
		Cover		
-		Shaft		
		Eccentric Shaft		
		Washer		
		Arm (right)		
		Key		
		Hex Cap Bolt		
39A	SBR30N-39	Lock Bolt		1
40	SBR30N-40	Hex Socket Cap Screw	M6x10	2
		Hex Cap Bolt		
		Hex Socket Cap Screw		

43SBR30N-43	Thumb Screw		2
	Hex Cap Bolt		
	Hex Socket Cap Screw		
46SBR30N-46	Washer	10.5	2
	Hex Cap Bolt		
	Hex Cap Bolt		
49SBR30N-46	Washer	10.5	2
	Adjustable Nut		
	Hex Cap Bolt		
52TS-1491051	Hex Cap Bolt	M10x35	2
53TS-1483031	Hex Cap Bolt	M8x25	9
	Hex Cap Bolt		
	Washer		
	Hex Cap Bolt		
	Hex Cap Bolt		
58TS-1482021	Hex Cap Bolt	M6x12	2
	Hex Cap Bolt		
	Hex Cap Bolt		
61SBR30N-61	Washer	10.5	2
62 SBR30N- 62	Hex Socket Set Screw	M5x10	20
	V-Block		
	Hex Nut		
64 SBR3UN- 64	Hex Nut	IVIJ	20



Parts List For The SBR-40N Shear, Brake, and Roll

Index No.	Part No.	Description	Size	Qty.
				1005
1	.SBR40N-1	Frame (left)		1
2	.SBR40N-2	. Table		1
3	.SBR40N-3	Cross Beam		1
4	.SBR40N-4	. Arm (right)		1
4A	.SBR40N-4A	Zerk Fitting		2
5	.SBR40N-5	Frame (right)		1
6	.SBR40N-6	Spacer Bar		1
7	.SBR40N-7	. Cover		2
8	.SBR40N-8	Pressure Plate Bracket		2
9	.SBR40N-9	Spring		2
10	.SBR40N-10	Press Plate]
11	.SBR40N-11	Cutter Plate]
12-1	.SBR40N-12-1	Brake Forming Die	. 15"	1
12-2	.SBR40N-12-2	Brake Forming Die	. 10"	1
12-3	.SBR40N-12-3	Brake Forming Die	. 7"	1
12-4	.SBR40N-12-4	Brake Forming Die	. 4"	1
12-5	.SBR40N-12-5	Brake Forming Die	. 2-1/2]
12-5	.SBR40N-12-6	Brake Forming Die	. 2"]
12-6	.SBR40N-12-7	Brake Forming Die	. 1-1/2"]
12-7	.SBR40N-12-8	Brake Forming Die	. 1"	1
13	.SBR40N-13	Press Plate		1
14	.SBR40N-14	Hex Cap Bolt	. M12x45	2
15	.SBR40N-15	Pivot		2
16	SBR40N-16	Stop Block		1
17	.SBR40N-17	Adjustable Bolt		2
18	.SBR40N-18	Handle Bar		2
19	SBR40N-19	. Guide Rod		2
20	.SBR40N-20	. Guide Block		2
		. Guide Plate		
22	SBR40N-22	. Support Plate		1
23	SBR40N-23	. Cutter		2
24	SBR40N-24	Roll		1
25	SBR40N-25	. Screw		∠
		. Handle		
		. Adjustable Bolt		
28	SBR40N-28	. Bushing		2
		. Cover		
		. Gear		
		. Lower Pressing Roll		
		Upper Pressing Roll		
		Cover		
		Lock Shaft		
		Eccentric Shaft		
		Bushing		
		Arm(right)		
38	SBR40N-38	Key		2
39	SBR40N-39	Hex Socket Cap Screw	M6x16	4

39A SBR40N-39A	Lock Bolt		2
40SBR40N-40	Hex Cap Bolt	M6x16	2
41 SBR40N-41	Set Screw		2
42SBR40N-42	Key		1
	Hex Cap Bolt		
44SBR40N-44	Hex Cap Bolt	M12x16	2
	Hex Socket Cap Screw		
	Washer		
47SBR40N-47	Hex Cap Bolt	M16×100	1
48SBR40N-48	Hex Cap Bolt	M16×30	2
49SBR40N-49	Washer	16.5	2
50SBR40N-50	Adjustable Nut	M16	1
51 SBR40N-51	Hex Socket Cap Screw	M12x30	2
	Hex Socket Cap Screw		
53SBR40N-53	Hex Socket Cap Screw	M6x25	13
54SBR40N-54	Hex Socket Cap Screw	M16x35	4
55SBR40N-55	Washer	12.5	2
56SBR40N-56	Hex Socket Cap Screw	M12x75	2
57SBR40N-57	Hex Socket Cap Screw	M6x16	6
58SBR40N-58	Hex Socket Cap Screw	M6×16	2
59SBR40N-59	Hex Socket Cap Screw	M6x16	6
60SBR40N-60	Hex Socket Cap Screw	M16x35	2
61 SBR40N-61	Washer	16.5	2
	Hex Socket Cap Screw		
	V-Block		
64SBR40N-64	Hex Nut	M5	14